

#### Introduction & Goals

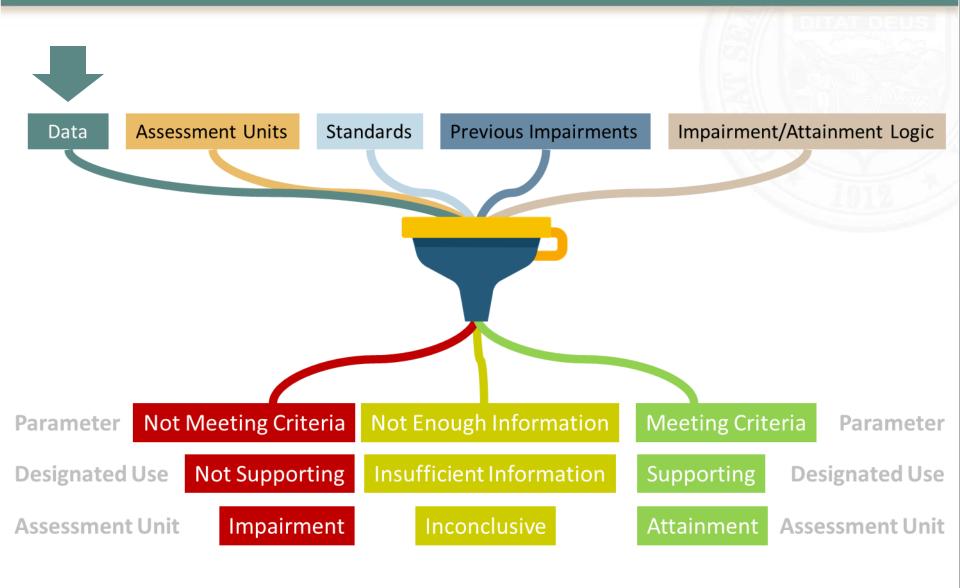


- Virtual hello
- Goal = Show you the pluses and minuses of the portal



### Road Map





#### **Assessments From Months to Minutes**

1. Gather (3 months)

External Data

> 2. Format (6 months)

3. Assess (4 months) 4. Send to ATTAINS

1. Gather (7 minutes)



**Portal** 

2. Format

(0 minutes)



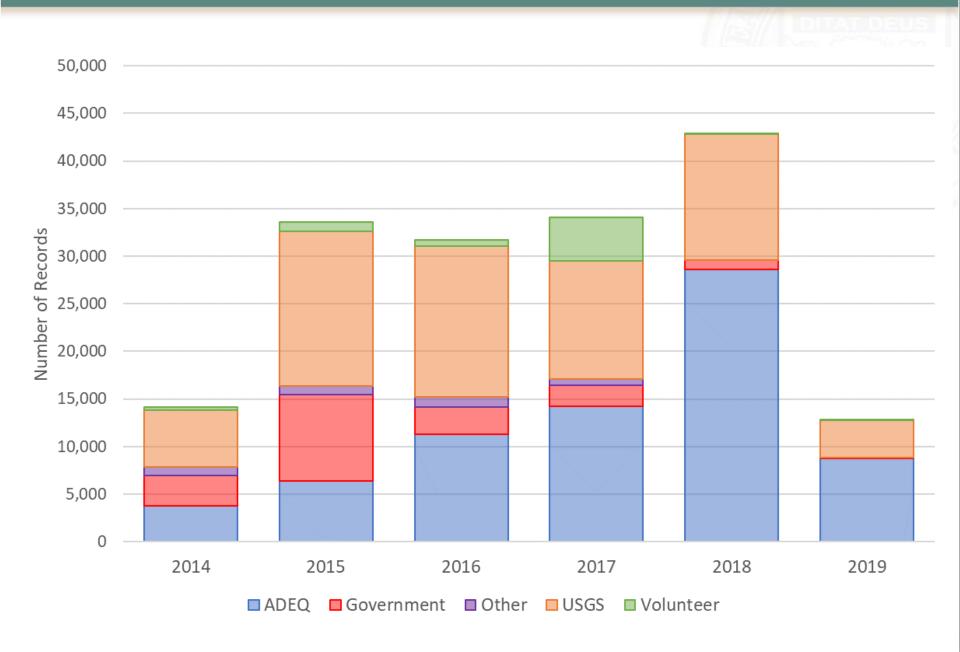
3. Assess (5 minutes)



4. Send to ATTAINS

#### Data Used in the 2020 Assessment





## Benefits of Using the Portal



- Less formatting because data already in a common schema.
- Less maintenance of other agencies data (1 FTE)
- Free infrastructure!
- Web services make it easy to import data into R or other programs











- You don't have control.
  - Very rarely data by other agencies is removed...problem if that is the data you're using to make impairment decision
  - About 70% of USGS data is missing detection limits due to a mapping issue between NWIS and the portal.
- Pluses outweigh minuses



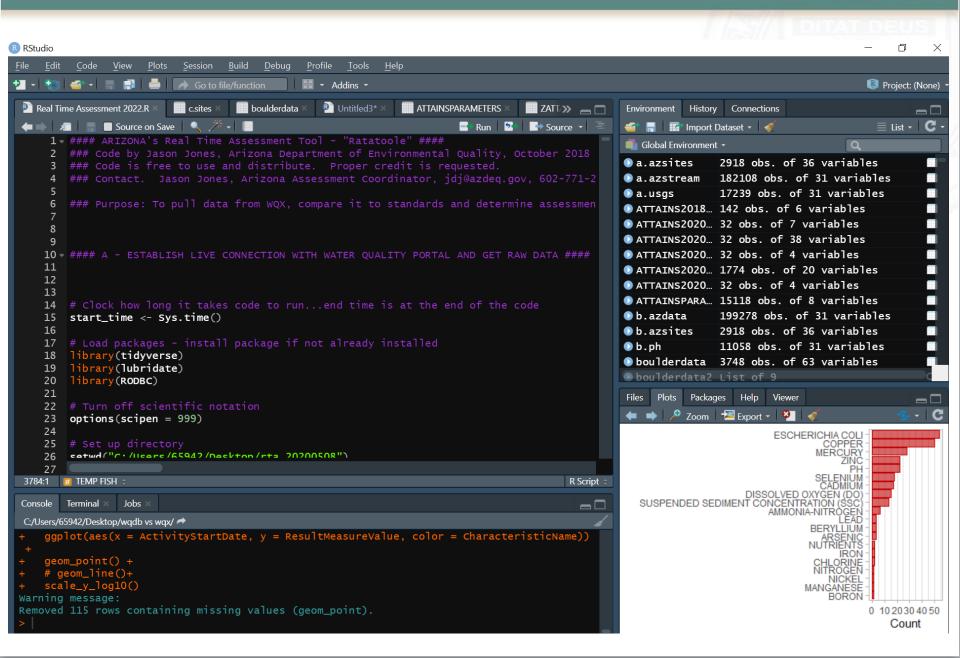






#### Real Time Assessments

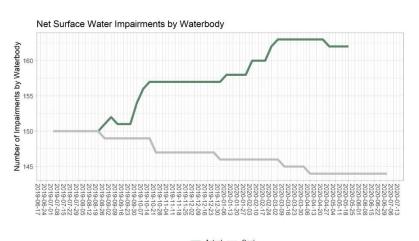


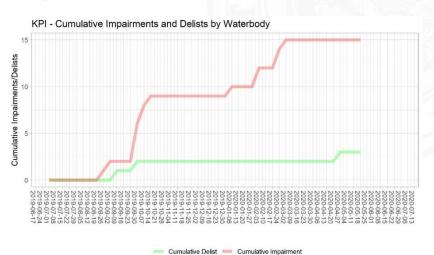


#### Real Time Assessments



# Arizona does weekly assessments





1



#### **Automated Decision.**

Solely based on data.

2



#### **Provisional Decision.**

Human can override computer.

3



#### Official Decision.

Send to EPA's ATTAINS.

## Real Time Assessment Advantages



- Adaptive sample plans saved \$300,000 in lab budget for FY20 while making more decisions
- Current data used to develop sampling plans
- Spreads out the work
- No surprises
- Can see if waterbody improvements are working



What it feels like to use old data to develop a sample plan.



# Questions?

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# Real Time Assessment R Code

https://github.com/ghroyd1110/WaterAssessmentCalculator